

WHAT IS CLAIMED IS

1. A system for processing audio and video data for a wireless handset comprising:

an audio sampler receiving audio data and converting  
5 the audio data to digitally encoded audio data;

a digital imager receiving image data and converting the image data to digitally encoded image data; and

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10 a processor coupled to the audio sampler and the digital imager and receiving the digitally encoded audio data and the digitally encoded image data, the processor giving processing priority to one of the digitally encoded audio data and the digitally encoded image data.

2. The system of claim 1 wherein the processor  
15 further comprises a controller providing control data to the audio sampler that causes the audio sampler to change the rate of audio sampling.

3. The system of claim 1 wherein the processor  
20 further comprises a controller providing control data to the digital imager that causes the digital imager to change the rate of digital image data generation.

4. The system of claim 1 wherein the processor  
25 further comprises a multiplex system that controls the assembly of the digitally encoded audio data and the digitally encoded video data into a transmission data packet.

5. The system of claim 1 wherein the processor further comprises a logical channel controller system that controls the assembly of the digitally encoded audio data and the digitally encoded video data into two or more logical channels.

6. The system of claim 1 wherein the processor further comprises a transmission protocol system that controls the placement of transmission protocol data in a transmission data packet.

7. The system of claim 1 wherein the processor further comprises a data buffer system storing logical channel data for one or more logical channels and transmission buffer data.



14. The method of claim 8 wherein processing audio data further comprises:

assembling a payload data field;

5 assembling a CRC data field using the payload data field; and

assembling a service data unit from the payload data field and the CRC data field.

15. The method of claim 8 further comprising:

Sub AI 10 assembling an audio data unit from the processed audio data;

assembling a video data unit from the processed video data; and

15 assembling a transmission data unit from the audio data unit and the video data unit.

16. The method of claim 15 wherein assembling the transmission data unit from the audio data unit and the video data unit further comprises:

20 placing a flag data unit in a first sequence position and a last sequence position;

placing a header data unit in a second sequence position; and

25 placing the audio data unit and the video data unit in one or more sequence positions between the second sequence position and the last sequence position according to predetermined criteria.

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17. A system for processing audio data and video data in a wireless handset comprising:

an audio data processor receiving audio data and processing the audio data to generate audio service data;

5 a video data processor receiving video data and processing the video data to generate video service data; and

a controller coupled to the audio data processor and the video data processor, the controller receiving the audio service data and the video service data and generating video control data therefrom.

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18. The system of claim 17 wherein the controller further comprises a digital image rate controller generating control data to reduce the rate of digital image generation.

19. The system of claim 17 wherein the controller further comprises an audio sample rate controller generating control data to reduce the rate of audio sampling.

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20. The system of claim 17 wherein the controller further comprises a framing system assembling the audio service data and the video service data into a transmission data frame.

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